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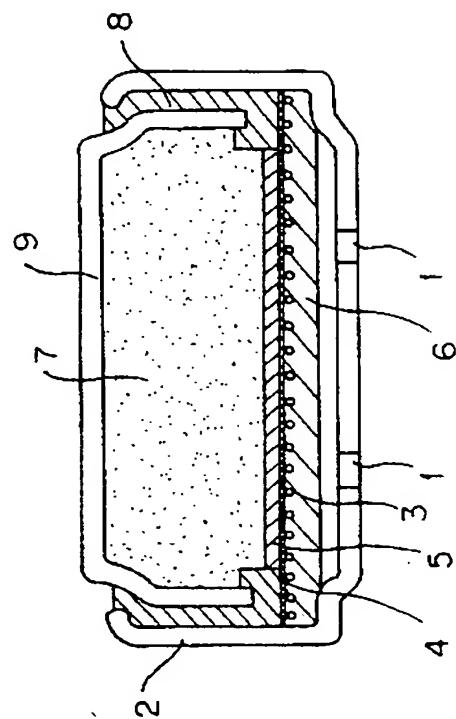
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TITLE : ZINC-AIR CELL



ABSTRACT : PURPOSE: To obtain a zinc-air cell having high rate discharge capability, low self-discharge rate, and excellent shelf life by bonding a zinctate ion nonpermiable separator on the surface of an air electrode with the mixture of polyvinyl alcohol and a boron oxide compound and an alkaline resistant gelling agent.

CONSTITUTION: An air electrode 6 which the mixture of polyvinyl alcohol and a boron oxide compound and an alkaline resistant gelling agent is coated on its nickel net surface 3 to form an adhesive layer 4, thereon a zinctate ion nonpermiable separator is bonded, is accommodated in a cathode can 2 perforated air inlet holes in its bottom. An anode material 7 mainly comprising zinc is filled, and an anode can 9 is inserted with a gasket 8 interposed, and a cell is closed to obtain an zinc-air cell having high rate discharge capability, low self-discharge rate, and excellent shelf life.

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